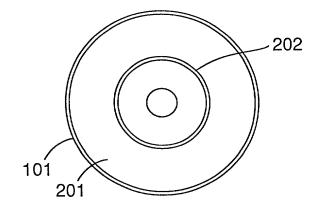


Fig.2



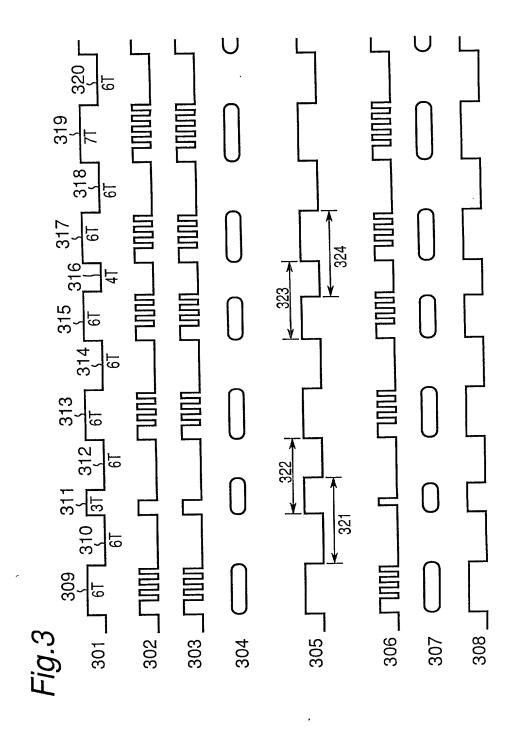
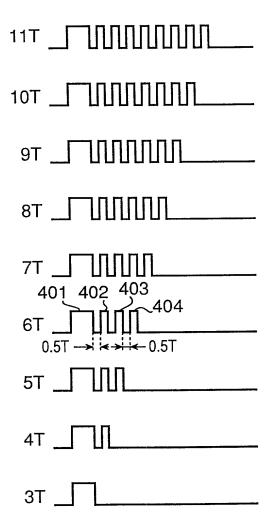
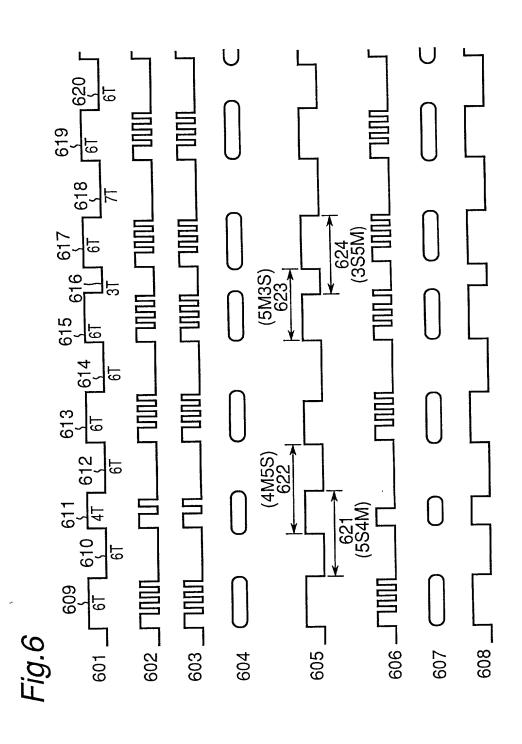


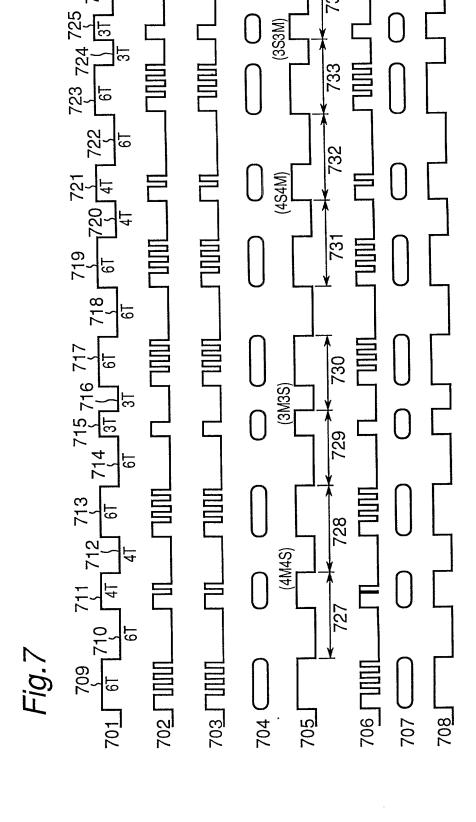
Fig.4



| MARK SIGNAL ≧5T 4T 3T 5M5S 4M5S 3M5S | 5M4S 4M4S 3M4S 5M3S 4M3S 3M3S | MARK SIGNAL ≥5T 4T 3T ≥5T 5M5Sq4M5Sq3M5Sc | 4T 5M4SC 4M4SC 3M4SC 3T 5M3SC 4M3SC 3M3SC |
|--|------------------------------------|---|--|
| LAST PULSE MOVEMENT (TL) ≧=5T 51 | FOLLOWING 4T 51 SPACE SIGNAL 3T 5 | LAST PULSE MOVEMENT (TL) ≥5T 51 | FOLLOWING 4T 5 SPACE SIGNAL 3T 5 |
| MARK SIGNAL ≥5T 4T 3T 5S5M 5S4M 5S3M | 4S5M 4S4M 4S3M 3S5M 3S4M 3S3M | MARK SIGNAL ≥5T 4T 3T 5S5Mq5S4Mq5S3Mq | 4S5MC4S4MC4S3MC 3S5MC3S4MC3S3MC |
| FIRST PULSE MOVEMENT (TF) ≥5T | PRECEDING 4T SPACE SIGNAL 3T | FIRST PULSE MOVEMENT (TF) ≥5T | PRECEDING 4T SPACE SIGNAL 3T |
| | Fig.5A | i | Fig.5B |



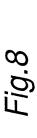
8

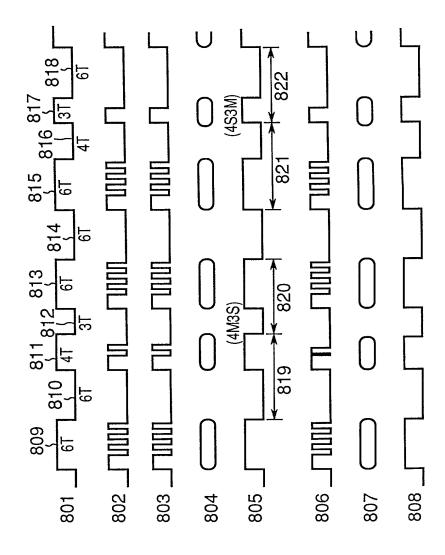


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(3S3M)







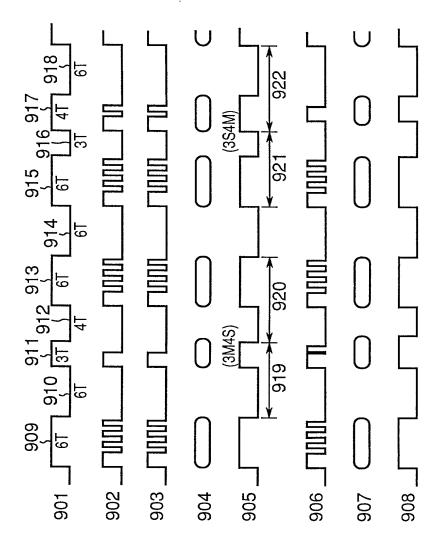


Fig.10

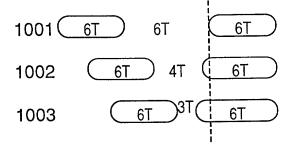


Fig.11

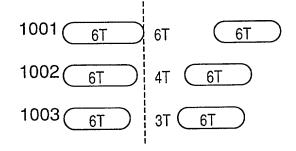


Fig.12

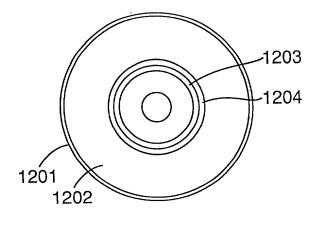


Fig.13

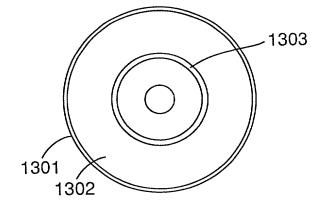


Fig.14

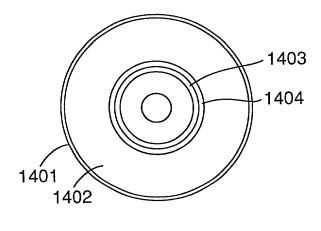


Fig.15

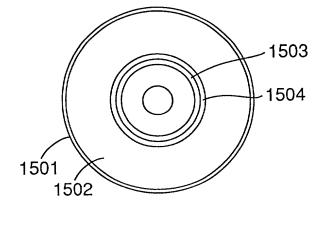


Fig.16

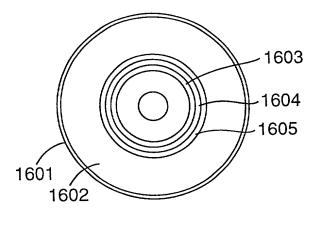


Fig.17

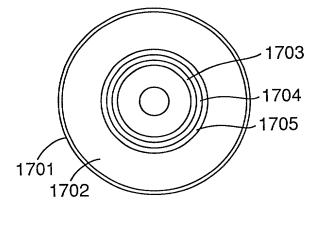


Fig.18

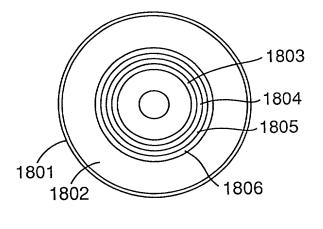
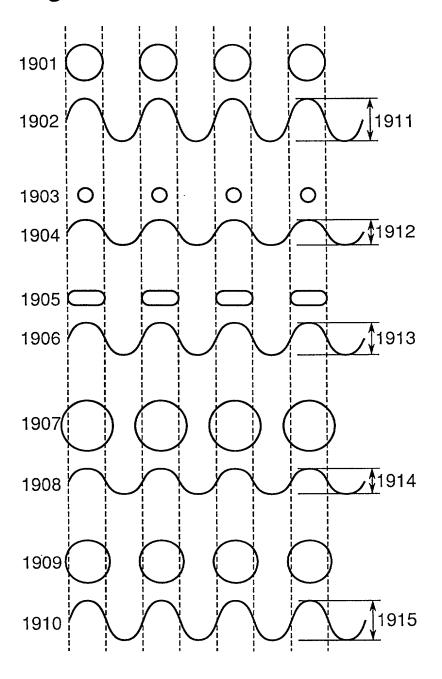


Fig.19



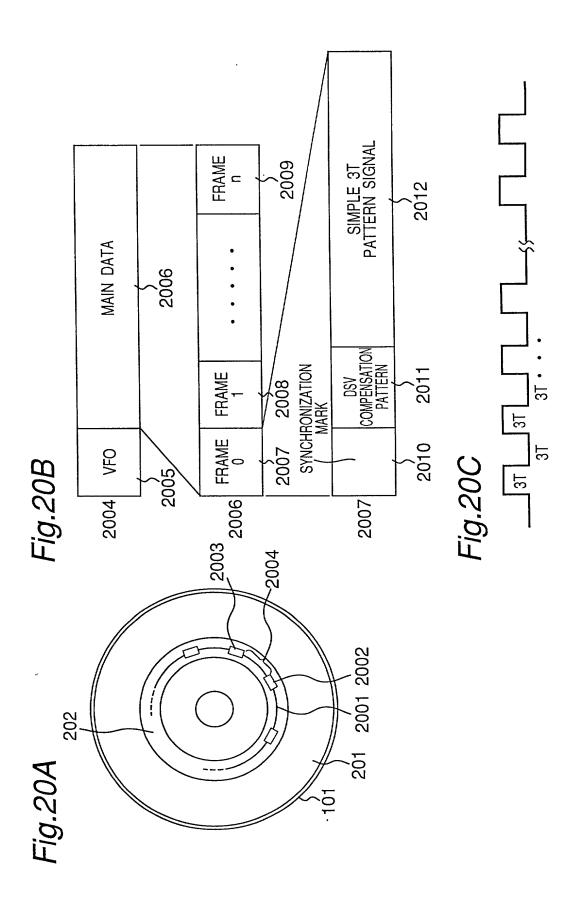


Fig.21

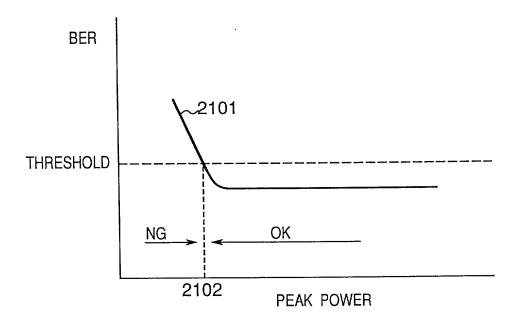


Fig.22

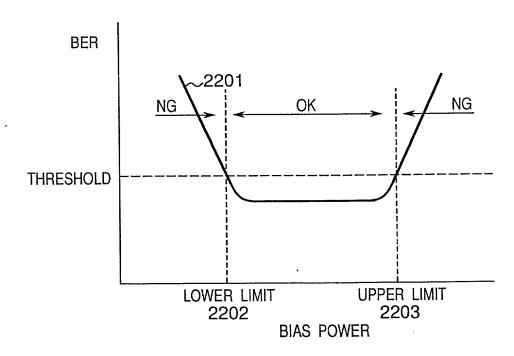


Fig.23

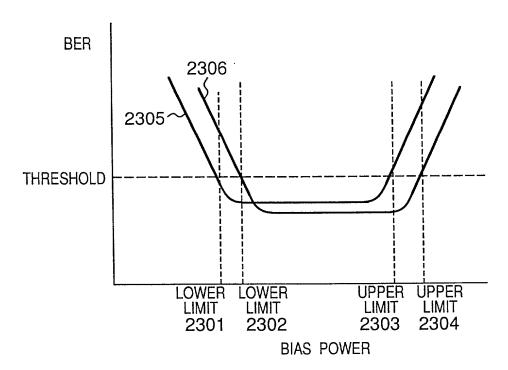


Fig.24

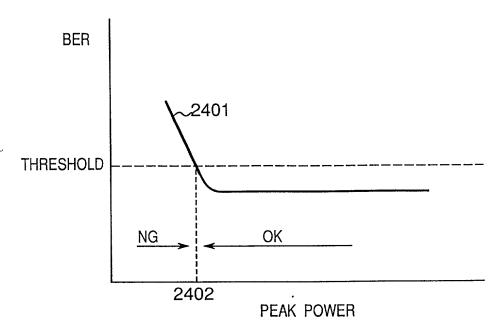


Fig.25

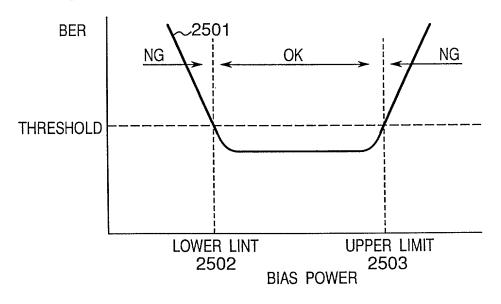


Fig.26

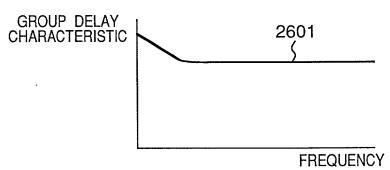


Fig.27

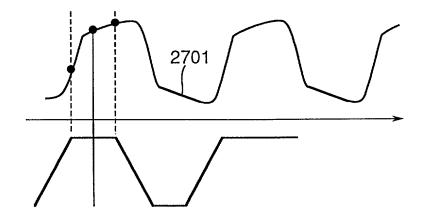


Fig.28A

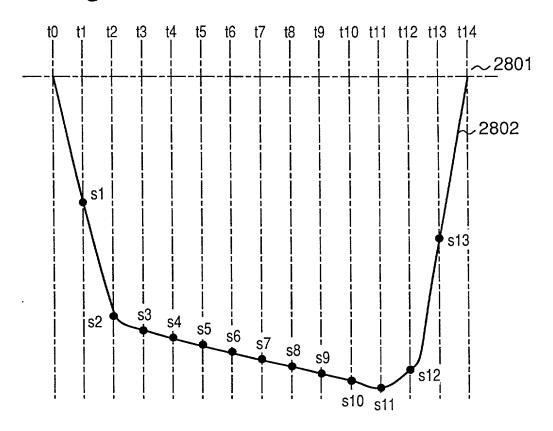
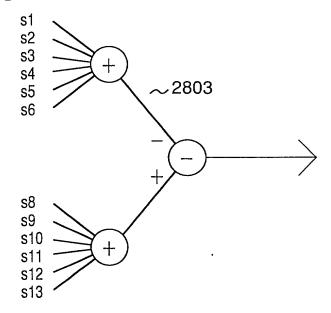
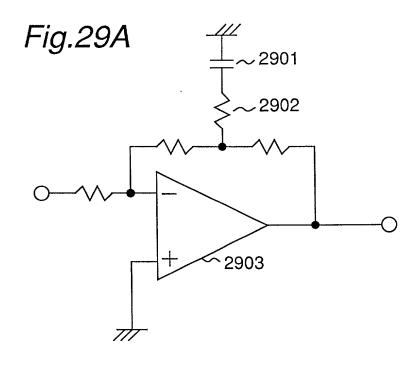


Fig.28B





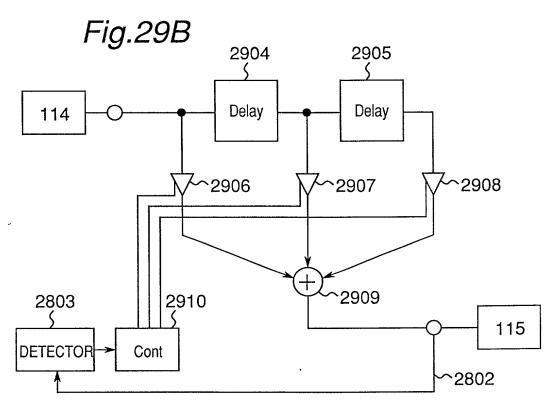
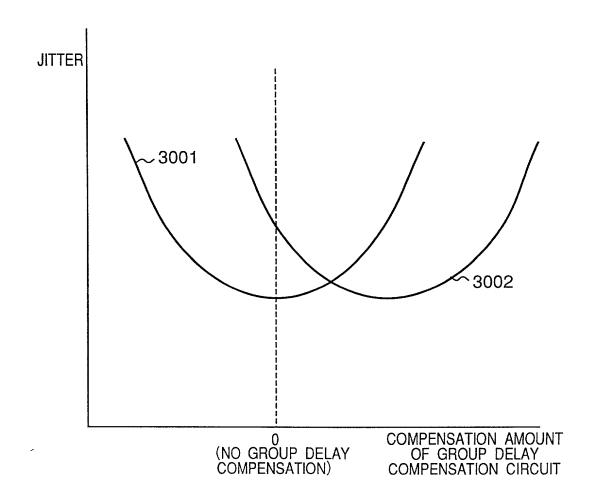


Fig.30



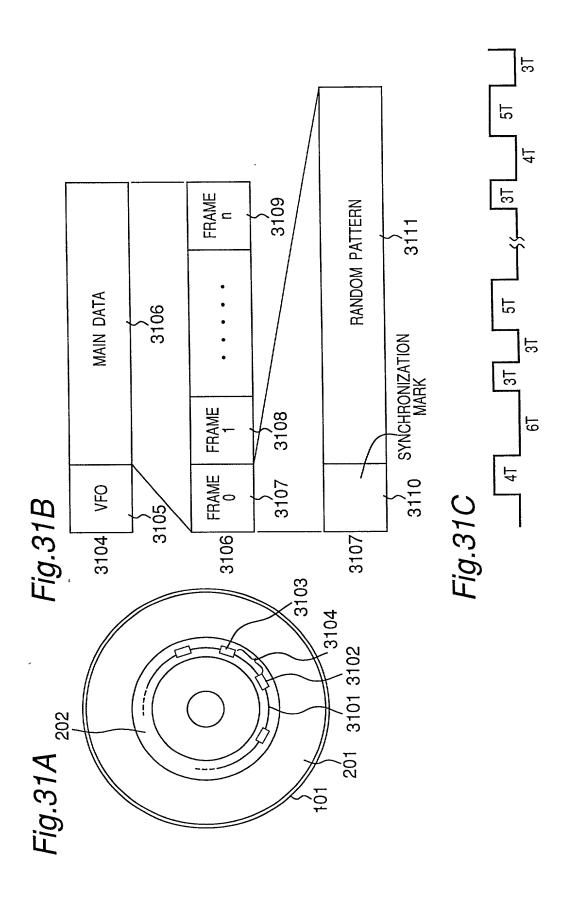


Fig.32

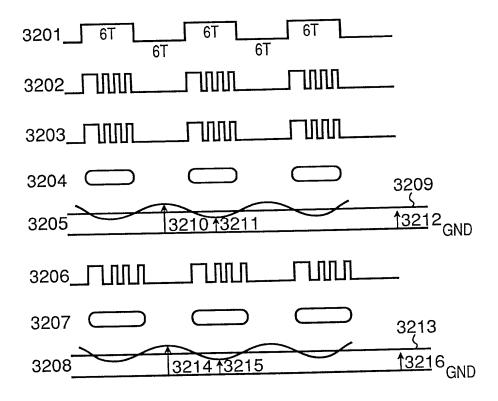


Fig.33

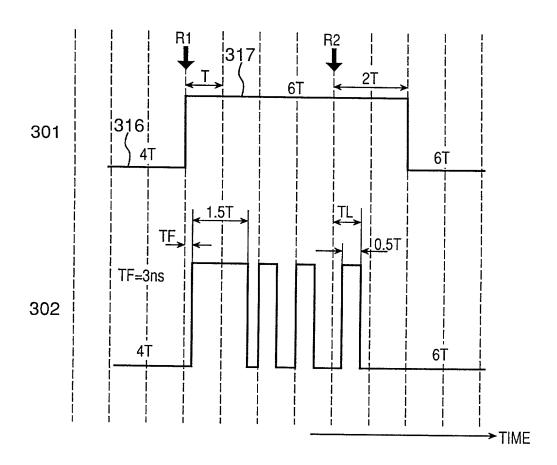


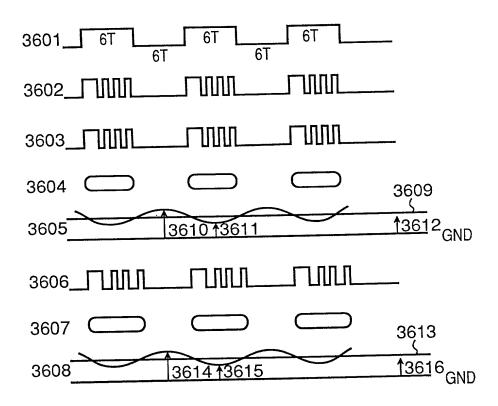
Fig. 34

| INSIDE CIRC | SUMFERENCE S | IDE | | | | |
|--------------------------------|---------------------|--|--|--|--|--|
| | INITIALIZATION ZONE | | | | | |
| | CONTROL | DISC TYPE | | | | |
| 1 | DATA ZONE | READ P | | | | |
| PIT AREA | DATA ZONE | | | | | |
| PH AREA | | PULSE ADJUSTMENT METHOD | | | | |
| | | TEMPORARY P INFO (GEN) | | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) | | | | |
| | | OPERATIONAL P INFO (GEN) | | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | | |
| | | | | | | |
| | | ASYMMETRY (GEN) | | | | |
| } | | PULSE POSITION INFO (GEN) | | | | |
| | | DISC SPECIFIC INFO | | | | |
| | | REPEAT THE ABOVE FOR FAIL SAFE | | | | |
| MIRROR | CONNECTION | 70VF | | | | |
| AREA | CONNECTION ZONE | | | | | |
| | GUARD TRACK ZONE 1 | | | | | |
| | DISC TEST Z | ONE 1 | | | | |
| | DRIVE TEST | | | | | |
| | RECORDER- | RECORDER-SPECIFIC INFO 1 | | | | |
| | SPECIFIC INFO | TEMPORARY P INFO (UNIQUE) | | | | |
| | RECORDING | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) | | | | |
| | ZONE 1 | OPERATIONAL P INFO (UNIQUE) | | | | |
| } | ZONL I | (DEAK D. DIAG D. MARGIN GONGTANE) | | | | |
| 1 | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | | |
| 1 | | PULSE POSITION INFO (UNIQUE) | | | | |
| | | (ASYMMETRY) | | | | |
| | | P MARGIN INFO | | | | |
| | | RECORDER-SPECIFIC INFO 2 | | | | |
| | Ì | TEMPORARY P INFO (UNIQUE) | | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) | | | | |
| | | OPERATIONAL P INFO (UNIQUE) | | | | |
| | | (DEAK D. DIAC D. MADOIN CONCEANT) | | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | | |
| | | PULSE POSITION INFO (UNIQUE) | | | | |
| | | (ASYMMETRY) | | | | |
| | | P MARGIN INFO | | | | |
| | | | | | | |
| | | • | | | | |
| | | • | | | | |
| | | RECORDER-SPECIFIC INFO n | | | | |
| | | TEMPORARY P INFO (UNIQUE) | | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) | | | | |
| | | OPERATIONAL P INFO (UNIQUE) | | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | | |
| | | PULSE POSITION INFO (UNIQUE) | | | | |
| | | (ASYMMETRY) | | | | |
| | | P MARGIN INFO | | | | |
| | | I MARAIN IN O | | | | |
| REPEAT THE ABOVE FOR FAIL SAFE | | | | | | |
| RECORDING | DISC ERROR M | ANAGEMENT AREA 1 | | | | |
| AREA | | | | | | |
| | DATA AREA | | | | | |

Fig. 35

| | DATA AREA | | | | |
|--------------|------------------------------|--|--|--|--|
| | DISC ERROR MANAGEMENT AREA 2 | | | | |
| | | RECORDER-SPECIFIC INFO 1 | | | |
| | | TEMPORARY P INFO (UNIQUE) | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) | | | |
| | ZONE 2 | OPERATIONAL P INFO (UNIQUE) | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | |
| | | PULSE POSITION INFO (UNIQUE) | | | |
| | | (ASYMMETRY) | | | |
| | | P MARGIN INFO | | | |
| | | RECORDER-SPECIFIC INFO 2 | | | |
| | | TEMPORARY P INFO (UNIQUE) | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | |
| | | PULSE POSITION INFO (UNIQUE) | | | |
| | | (ASYMMETRY) | | | |
| | | P MARGIN INFO | | | |
| | | • | | | |
| | | • | | | |
| : | | • | | | |
| | | RECORDER-SPECIFIC INFO 3 | | | |
| | | TEMPORARY P INFO (UNIQUE) | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) | | | |
| | | OPERATIONAL P INFO (UNIQUE) | | | |
| | | (PEAK P, BIAS P, MARGIN CONSTANT) | | | |
| | | PULSE POSITION INFO (UNIQUE) (ASYMMETRY) | | | |
| | | P MARGIN INFO | | | |
| | | I WATCHIN IN O | | | |
| | | REPEAT THE ABOVE FOR FAIL SAFE | | | |
| | DRRIVE TEST | | | | |
| | DISC TEST Z | | | | |
| OUTSIDE OF | GUARD TRAC | | | | |
| OO LOIDE OIL | TOUMPERENCE | SINE | | | |

Fig.36



130

DISC-SPECIFIC INFO 1 TEMPORARY P INFO (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (PEAK P, BIAS P, MARGIN CONSTANT) **ASYMMETRY** PULSE POSITION INFO DISC-SPECIFIC INFO 2 TEMPORARY P INFO (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (PEAK P. BIAS P. MARGIN CONSTANT) ASYMMETRY **PULSE POSITION INFO** DISC-SPECIFIC INFO n TEMPORARY P INFO

(PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY)

REPEAT THE ABOVE FOR FAIL SAFE

(PEAK P, BIAS P, MARGIN CONSTANT)

OPERATIONAL P INFO

PULSE POSITION INFO POWER MARGIN INFO

ASYMMETRY

| | ASYM | | | | | < | 1 < | 1 < | 1 4 | |
|---------------------|---------|--------|--------|-------------|--------|--------|--------|----------|----------|-------------------|
| | 9 P | < | 1 < | 1 | | < | 1 < | 1 < | 1 4 | |
| Y 130 | TEMP | < | 1 < | 1 | | < | 1 < | 1 < | 1 4 | |
| | SP 1ST/ | -KAS- | 1 < | 1 | | < | 1 < | 1 < | 1 4 | |
| MEMOF | SP | < | 1 < | 1 | | < | < | < | 1 4 | FIC |
| RESULT | | | | | | | | 1705 - 1 | 1806 − △ | DISC-SPECIFIC |
| TEST | | 202 | 1204 | -) ! | | 1504 | 1605 | 1704 | 1805 | TEST |
| | SP | | | | | ◁ | | 4 | | 1 |
| | ASYM SP | | | | | ◁ | ◁ | ◁ | ⊲ | |
| | О | | | | | ⊲ | ◁ | ◁ | ◁ | |
| ST | TEMP OP | | | | | 4 | ◁ | 4 | ◁ | |
| 1ST/LA | · | i | | 1303 | 1404 | 1503 | 1604 | 1703 | 1804 | A ZONE |
| ADJUSTMENT 1ST/LAST | SP | ⊲ | ◁ | | | | ◁ | | ◁ | CONTROL DATA ZONE |
| | | ı | 1203 | | 1403 | | 1603 | | 1803 △ | CONTR |
| DATA | | 201 | 1202 | 1302 | 1402 | 1502 | 1602 | 1702 | 1802 | |
| -1 | | FIG. 2 | FIG.12 | FIG.13 | FIG.14 | FIG.15 | FIG.16 | FIG.17 | FIG.18 | J |

DATA·····DATA AREA

ADJUSTMENT: AREA FOR RECORDING ADJUSTMENT METHOD WITH EMBOSSED PITS

INFO RECORDING ZONE

ZONE

1ST/LAST...... AREA FOR RECORDING INFO OF MARK START/END POSITIONS WITH EMBOSSED PITS

TEST...... AREA FOR TEST WRITING FOR OBTAINING INFO OF MARK START/END POSITIONS, OPTIMUM POWER, ETC.

RESULT.....AREA FOR RECORDING THE TEST RESULTS

SP.....INFO SPECIFIC TO THE DISC

TEMP......INFO OF TEMPORARY POWER LEVEL INCLUDING PEAK POWER, BIAS POWER, MARGIN CONSTANT,

AND ASYMMETRY FOR USE IN ADJUSTING 1ST AND LAST PULSE POSITIONS

INFO OF OPERATIONAL POWER LEVEL INCLUDING PEAK POWER, BIAS POWER AND MARGIN CONSTANT OP-----

FOR USE IN RECORDING DATA IN DATA AREA

INFO OF ASYMMETRY FOR USE IN DETERMINING THE INITIAL POSITION OF 1ST AND LAST PULSES ASYM.....